Author Index

Acker, H., Bölling, B., Delpiano, M.A., Dufau, E., Görlach, A. and Holtermann, G.
The meaning of H_2O_2 generation in carotid body cells for PO_2 chemoreception (41) 41
Antonaci, F., see Micieli, G. (41) 179

Baradziej, S., see Trzebski, A. (41) 129
Bell, C., see Sunn, N. (41) 113
Berntson, G.G., Quigley, K.S., Fabro, V.J. and Cacioppo, J.T.
Vagal stimulation and cardiac chronotropy in rats (41) 221
Bohus, B., see Korte, S.M. (41) 157
Bölling, B., see Acker, H. (41) 41
Bywater, R.A.R., see Lyster, D.J.K. (41) 187

Cacioppo, J.T., see Berntson, G.G. (41) 221
Calaresu, F.R., see Chitravanshi, V.C. (41) 121
Casale, R. and Elam, M.
Normal sympathetic nerve activity in a reflex sympathetic dystrophy with marked skin vasoconstriction (41) 215
Chitravanshi, V.C. and Calaresu, F.R.
Additive effects of dopamine and 8-OH-DPAT microinjected into the nucleus ambiguus in eliciting vagal bradycardia in rats (41) 121
Czachurski, J., see Ockert, D.M. (41) 93
Czachurski, J., see Offner, B. (41) 103
Czyzyk-Krzeska, M.F., Lawson, E.E. and Millhorn, D.E.
Expression of D_2 dopamine receptor mRNA in the arterial chemoreceptor afferent pathway (41) 31

Delpiano, M.A., see Acker, H. (41) 41
Dembowsky, K., see Ockert, D.M. (41) 93
Dembowsky, K., see Offner, B. (41) 103
Dufau, E., see Acker, H. (41) 41

Elam, M., see Casale, R. (41) 215

Fabro, V.J., see Berntson, G.G. (41) 221

Görlach, A., see Acker, H. (41) 41

Holtermann, G., see Acker, H. (41) 41

Inokuchi, H., Yoshimura, M., Trzebski, A., Polosa, C. and Nishi, S.
Fast inhibitory postsynaptic potentials and responses to inhibitory amino acids of sympathetic preganglionic neurons in the adult cat (41) 53
Ivanov, A.Y. and Skok, V.I.
Neuronal mechanisms responsible for ongoing activity of rabbit superior cervical ganglion neurons (41) 61
Iwai, M. and Shimazu, T.
Alteration in sympathetic nerve activity during liver regeneration in rats after partial hepatectomy (41) 209

Jaarsma, D., see Korte, S.M. (41) 157
Jänig, W. and McLachlan, E.M.
Specialized functional pathways are the building blocks of the autonomic nervous system (41) 3

Kluge, W., see Langhorst, P. (41) 141
Koizumi, K. and Kollai, M.
Multiple modes of operation of cardiac autonomic control: development of the ideas from Cannon and Brooks to the present (41) 19
Kollai, M., see Koizumi, K. (41) 19
Korte, S.M., Jaarsma, D., Luiten, P.G.M. and Bohus, B.
Mesencephalic cuneiform nucleus and its ascending and descending projections serve stress-related cardiovascular responses in the rat (41) 157

Lambertz, M., see Langhorst, P. (41) 141
Langhorst, P., Lambertz, M., Kluge, W. and Rittweger, J.
Different modes of dampening influence from baroreceptors are determined by the functional organization of the NTS neuronal network (41) 141
Lawson, E.E., see Czyzyk-Krzeska, M.F. (41) 31
Lucchini, S., see Mei, N. (41) 15
Luiten, P.G.M., see Korte, S.M. (41) 157
Lyster, D.J.K., Bywater, R.A.R., Taylor, G.S. and Watson, M.J.
Effects of a nitric oxide synthase inhibitor on non-cholinergic junction potentials in the circular muscle of the guinea pig ileum (41) 187

McLachlan, E.M., see Jänig, W. (41) 3
Mei, N. and Lucchini, S.
Current data and ideas on digestive sensitivity (41) 15
Micieli, G., Tassorelli, C., Sandrini, G., Antonaci, F. and Nappi, G.
The trigemino-pupillary reflex: a model of sensory-vegetative integration (41) 179
Millhorn, D.E., see Czyzyk-Krzeska, M.F. (41) 31

Nappi, G., see Micieli, G. (41) 179
Niijima, A.
Electrophysiological study on the vagal innervation of the adrenal gland in the rat (41) 87
Nishi, S., see Inokuchi, H. (41) 53

Ockert, D.M., Czachurski, J., Dembowsky, K. and Seller, H.
Central action of α-adrenoceptor agents on the baroreceptor reflex (41) 93
Offner, B., Dembowsky, K. and Czachurski, J.
Characteristics of sympathetic reflexes evoked by electrical stimulation of phrenic nerve afferents (41) 103

Polosa, C., see Inokuchi, H. (41) 53

Quigley, K.S., see Berntson, G.G. (41) 221

Rittweger, J., see Langhorst, P. (41) 141

Sandrini, G., see Micieli, G. (41) 179
Sato, A., Trzebski, A. and Zhou, W.
Local cerebral blood flow responses in rats to hypercapnia and hypoxia in the rostral ventrolateral medulla and in the cortex (41) 79
Seller, H., see Ockert, D.M. (41) 93
Shimazu, T., see Iwai, M. (41) 209
Skok, V.I., see Ivanov, A.Y. (41) 61
Sunn, N., Woodman, O.L. and Bell, C.
Involvement of dopamine in control of renal blood flow (41) 113

Tack, J.F. and Wood, J.D.
Actions of noradrenaline on myenteric neurons in the guinea pig gastric antrum (41) 67
Tassorelli, C., see Micieli, G. (41) 179
Taylor, G.S., see Lyster, D.J.K. (41) 187
Trzebski, A. and Baradziej, S.
Role of the rostral ventrolateral medulla in the generation of synchronized sympathetic rhythmicities in the rat (41) 129
Trzebski, A., see Inokuchi, H. (41) 53
Trzebski, A., see Sato, A. (41) 79

Vaughan, C.W.
Hypogastric nerve section reveals a role for both afferent and efferent fibres in the feline continence process (41) 197

Watson, M.J., see Lyster, D.J.K. (41) 187
Wood, J.D., see Tack, J.F. (41) 67
Woodman, O.L., see Sunn, N. (41) 113

Yoshimura, M., see Inokuchi, H. (41) 53

Zhou, W., see Sato, A. (41) 79

Key Word Index

Adaptation of activity of CNS to behaviour pattern
Nucleus tractus solitarii; Baroreceptor afferents; Functional organization (Langhorst, P. (41) 141)

Adrenal nerve
Vagus nerve; Celiac branch (Niijima, A. (41) 87)

α-Adrenoceptor
Carotid sinus nerve stimulation; Baroreceptor reflex; Sympathetic activity; Renal nerve (Ockert, D.M. (41) 93)

Apamin
Enteric nervous system; Nitric oxide; Substance P; Electrophysiology; Junction potential (Lyster, D.J.K. (41) 187)

Autonomic control
Cardiac vagus nerve; Cardiac sympathetic nerve; Reciprocal control; Non-reciprocal control (Koizumi, K. (41) 19)

Autonomic nervous system
Organization; Functional pathways; Target organs (Jänig, W. (41) 3)

Heart rate; Heart period; Vagal stimulation (Berntson, G.G. (41) 221)

Autoregulation
Dopaminergic nerve; Kidney; Coronary reflex; Sympathetic (Sunn, N. (41) 113)

Baroreceptor afferents
Nucleus tractus solitarii; Functional organization; Adaptation of activity of CNS to behaviour pattern (Langhorst, P. (41) 141)

Baroreceptor reflex
Carotid sinus nerve stimulation; Sympathetic activity; Renal nerve; α-Adrenoceptor (Ockert, D.M. (41) 93)

Bladder
Continence; Hypogastric nerve; Physiological filling; Cat (Vaughan, C.W. (41) 197)

Blood pressure
Cuneiform nucleus; Kölliker-Fuse nucleus; Neuroanatomy; Bradycardia; Passive coping strategy (Korte, S.M. (41) 157)

Bradycardia
Cuneiform nucleus; Kölliker-Fuse nucleus; Neuroanatomy; Blood pressure; Passive coping strategy (Korte, S.M. (41) 157)

Brainstem
Spinal afferent; Spinal cord; Spinal reflex; Supraspinal reflex; Somato-sympathetic reflex; RVLM; Diaphragm; Phrenic nerve; Sympathetic activity (Offner, B. (41) 103)

Calcium antagonists
Rostral ventrolateral medulla; Sympathetic oscillator; Power density spectral analysis; Synaptic block (Trzebski, A. (41) 129)

Cardiac sympathetic nerve
Cardiac vagus nerve; Reciprocal control; Non-reciprocal control; Autonomic control (Koizumi, K. (41) 19)

Cardiac vagus nerve
Cardiac sympathetic nerve; Reciprocal control; Non-reciprocal control; Autonomic control (Koizumi, K. (41) 19)

Carotid body
Dopamine receptor; Dopamine; Petrosal ganglion; Superior cervical ganglion; mRNA (Czyzyk-Krzeska, M.F. (41) 31)

Hydroperoxides; Cytochrome *b*; Glutathione; Oxygen sensing; Spectroscopy; Heme protein (Acker, H. (41) 41)

Carotid sinus nerve stimulation
Baroreceptor reflex; Sympathetic activity; Renal nerve; α-Adrenoceptor (Ockert, D.M. (41) 93)

Cat
Continence; Hypogastric nerve; Bladder; Physiological filling (Vaughan, C.W. (41) 197)

Celiac branch
Vagus nerve; Adrenal nerve (Niijima, A. (41) 87)

Chemoreceptor afferent
Rostral ventrolateral medullary blood flow; Cortical blood flow; Hypercapnia; Hypoxia; Rat (Sato, A. (41) 79)

Chloride conductance
Synaptic inhibition; Glycine; GABA; Sympathetic preganglionic neuron (Inokuchi, H. (41) 53)

Continence
Hypogastric nerve; Bladder; Physiological filling; Cat (Vaughan, C.W. (41) 197)

Coronary reflex
Dopaminergic nerve; Kidney; Sympathetic; Autoregulation (Sunn, N. (41) 113)

Cortical blood flow
Rostral ventrolateral medullary blood flow; Hypercapnia; Hypoxia; Rat; Chemoreceptor afferent (Sato, A. (41) 79)

Cuneiform nucleus
Kölliker-Fuse nucleus; Neuroanatomy; Blood pressure; Bradycardia; Passive coping strategy (Korte, S.M. (41) 157)

Cytochrome *b*
Hydroperoxides; Carotid body; Glutathione; Oxygen sensing; Spectroscopy; Heme protein (Acker, H. (41) 41)

Diaphragm
Spinal afferent; Spinal cord; Spinal reflex; Brainstem; Supraspinal reflex; Somato-sympathetic reflex; RVLM; Phrenic nerve; Sympathetic activity (Offner, B. (41) 103)

Digestive sensitivity
Vagal nerve; Sensory transduction (Mei, N. (41) 15)

Dopamine
Dopamine receptor; Carotid body; Petrosal ganglion; Superior cervical ganglion; mRNA (Czyzyk-Krzeska, M.F. (41) 31)

Nucleus ambiguus; Vagal bradycardia; 8-OH-DPAT; Microinjection (Chitravanshi, V.C. (41) 121)

Dopamine receptor
Dopamine; Carotid body; Petrosal ganglion; Superior cervical ganglion; mRNA (Czyzyk-Krzeska, M.F. (41) 31)

Dopaminergic nerve
Kidney; Coronary reflex; Sympathetic; Autoregulation (Sunn, N. (41) 113)

Electrophysiology
Enteric nervous system; Nitric oxide; Substance P; Junction potential; Apamin (Lyster, D.J.K. (41) 187)

Enteric nervous system
Myenteric plexus; Stomach; Noradrenaline; Synaptic transmission (Tack, J.F. (41) 67)

Nitric oxide; Substance P; Electrophysiology; Junction potential; Apamin (Lyster, D.J.K. (41) 187)

Functional organization
Nucleus tractus solitarii; Baroreceptor afferents; Adaptation of activity of CNS to behaviour pattern (Langhorst, P. (41) 141)

Functional pathways
Autonomic nervous system; Organization; Target organs (Jänig, W. (41) 3)

GABA
Synaptic inhibition; Glycine; Chloride conductance; Sympathetic preganglionic neuron (Inokuchi, H. (41) 53)

Glutathione
Hydroperoxides; Cytochrome *b*; Carotid body; Oxygen sensing; Spectroscopy; Heme protein (Acker, H. (41) 41)

Glycine
Synaptic inhibition; GABA; Chloride conductance; Sympathetic preganglionic neuron (Inokuchi, H. (41) 53)

Heart period
Autonomic nervous system; Heart rate; Vagal stimulation (Berntson, G.G. (41) 221)

Heart rate
Autonomic nervous system; Heart period; Vagal stimulation (Berntson, G.G. (41) 221)

Heme protein
Hydroperoxides; Cytochrome *b*; Carotid body; Glutathione; Oxygen sensing; Spectroscopy (Acker, H. (41) 41)

Homatropine
Pupil; Pain; Trigeminal stimulation; Substance P; Thymoxamine (Micieli, G. (41) 179)

Hydroperoxides
Cytochrome *b*; Carotid body; Glutathione; Oxygen sensing; Spectroscopy; Heme protein (Acker, H. (41) 41)

Hypercapnia
Rostral ventrolateral medullary blood flow; Cortical blood flow; Hypoxia; Rat; Chemoreceptor afferent (Sato, A. (41) 79)

Hypogastric nerve
Continence; Bladder; Physiological filling; Cat (Vaughan, C.W. (41) 197)

Hypoxia
Rostral ventrolateral medullary blood flow; Cortical blood flow; Hypercapnia; Rat; Chemoreceptor afferent (Sato, A. (41) 79)

Junction potential
Enteric nervous system; Nitric oxide; Substance P; Electrophysiology; Apamin (Lyster, D.J.K. (41) 187)

Kidney
Dopaminergic nerve; Coronary reflex; Sympathetic; Autoregulation (Sunn, N. (41) 113)

Kölliker-Fuse nucleus
Cuneiform nucleus; Neuroanatomy; Blood pressure; Bradycardia; Passive coping strategy (Korte, S.M. (41) 157)

Liver regeneration
Norepinephrine turnover; Sympathetic nerve; Rat (Iwai, M. (41) 209)

Microinjection
Nucleus ambiguus; Vagal bradycardia; Dopamine; 8-OH-DPAT (Chitravanshi, V.C. (41) 121)

Microneurography
Neuropathic pain; Reflex sympathetic dystrophy; Skin temperature; Vasoconstriction; Sympathetic nerve activity (Casale, R. (41) 215)

Muscaranic receptors
Sympathetic ganglion; Ongoing activity (Ivanov, A.Y. (41) 61)

Myenteric plexus
Enteric nervous system; Stomach; Noradrenaline; Synaptic transmission (Tack, J.F. (41) 67)

Neuroanatomy
Cuneiform nucleus; Kölliker-Fuse nucleus; Blood pressure; Bradycardia; Passive coping strategy (Korte, S.M. (41) 157)

Neuropathic pain
Reflex sympathetic dystrophy; Skin temperature; Vasoconstriction; Sympathetic nerve activity; Microneurography (Casale, R. (41) 215)

Nitric oxide
Enteric nervous system; Substance P; Electrophysiology; Junction potential; Apamin (Lyster, D.J.K. (41) 187)

Non-reciprocal control
Cardiac vagus nerve; Cardiac sympathetic nerve; Reciprocal control; Autonomic control (Koizumi, K. (41) 19)

Noradrenaline
Enteric nervous system; Myenteric plexus; Stomach; Synaptic transmission (Tack, J.F. (41) 67)

Norepinephrine turnover
Sympathetic nerve; Liver regeneration; Rat (Iwai, M. (41) 209)

Nucleus ambiguus
Vagal bradycardia; Dopamine; 8-OH-DPAT; Microinjection (Chitravanshi, V.C. (41) 121)

Nucleus tractus solitarii
Baroreceptor afferents; Functional organization; Adaptation of activity of CNS to behaviour pattern (Langhorst, P. (41) 141)

8-OH-DPAT
Nucleus ambiguus; Vagal bradycardia; Dopamine; Microinjection (Chitravanshi, V.C. (41) 121)

Ongoing activity
Sympathetic ganglion; Muscaranic receptors (Ivanov, A.Y. (41) 61)

Organization
Autonomic nervous system; Functional pathways; Target organs (Jänig, W. (41) 3)

Oxygen sensing
Hydroperoxides; Cytochrome *b*; Carotid body; Glutathione; Spectroscopy; Heme protein (Acker, H. (41) 41)

Pain
Pupil; Trigeminal stimulation; Substance P; Homatropine; Thymoxamine (Micieli, G. (41) 179)

Passive coping strategy
Cuneiform nucleus; Kölliker-Fuse nucleus; Neuroanatomy; Blood pressure; Bradycardia (Korte, S.M. (41) 157)

Petrosal ganglion
Dopamine receptor; Dopamine; Carotid body; Superior cervical ganglion; mRNA (Czyzyk-Krzeska, M.F. (41) 31)

Phrenic nerve
Spinal afferent; Spinal cord; Spinal reflex; Brainstem; Supraspinal reflex; Somato-sympathetic reflex; RVLM; Diaphragm; Sympathetic activity (Offner, B. (41) 103)

Physiological filling
Continence; Hypogastric nerve; Bladder; Cat (Vaughan, C.W. (41) 197)

Power density spectral analysis
Rostral ventrolateral medulla; Sympathetic oscillator; Synaptic block; Calcium antagonists (Trzebski, A. (41) 129)

Pupil
Pain; Trigeminal stimulation; Substance P; Homatropine; Thymoxamine (Micieli, G. (41) 179)

Rat
Rostral ventrolateral medullary blood flow; Cortical blood flow; Hypercapnia; Hypoxia; Chemoreceptor afferent (Sato, A. (41) 79)

Norepinephrine turnover; Sympathetic nerve; Liver regeneration (Iwai, M. (41) 209)

Reciprocal control
Cardiac vagus nerve; Cardiac sympathetic nerve; Non-reciprocal control; Autonomic control (Koizumi, K. (41) 19)

Reflex sympathetic dystrophy
Neuropathic pain; Skin temperature; Vasoconstriction; Sympathetic nerve activity; Microneurography (Casale, R. (41) 215)

Renal nerve
Carotid sinus nerve stimulation; Baroreceptor reflex; Sympathetic activity; α-Adrenoceptor (Ockert, D.M. (41) 93)

mRNA
Dopamine receptor; Dopamine; Carotid body; Petrosal ganglion; Superior cervical ganglion (Czyzyk-Krzeska, M.F. (41) 31)

Rostral ventrolateral medulla
Sympathetic oscillator; Power density spectral analysis; Synaptic block; Calcium antagonists (Trzebski, A. (41) 129)

Rostral ventrolateral medullary blood flow
Cortical blood flow; Hypercapnia; Hypoxia; Rat; Chemoreceptor afferent (Sato, A. (41) 79)

RVLM
Spinal afferent; Spinal cord; Spinal reflex; Brainstem; Supraspinal reflex; Somato-sympathetic reflex; Diaphragm; Phrenic nerve; Sympathetic activity (Offner, B. (41) 103)

Sensory transduction
Digestive sensitivity; Vagal nerve (Mei, N. (41) 15)

Skin temperature
Neuropathic pain; Reflex sympathetic dystrophy; Vasoconstriction; Sympathetic nerve activity; Microneurography (Casale, R. (41) 215)

Somato-sympathetic reflex
Spinal afferent; Spinal cord; Spinal reflex; Brainstem; Supraspinal reflex; RVLM; Diaphragm; Phrenic nerve; Sympathetic activity (Offner, B. (41) 103)

Spectroscopy
Hydroperoxides; Cytochrome *b*; Carotid body; Glutathione; Oxygen sensing; Heme protein (Acker, H. (41) 41)

Spinal afferent
Spinal cord; Spinal reflex; Brainstem; Supraspinal reflex; Somato-sympathetic reflex; RVLM; Diaphragm; Phrenic nerve; Sympathetic activity (Offner, B. (41) 103)

Spinal cord
Spinal afferent; Spinal reflex; Brainstem; Supraspinal reflex; Somato-sympathetic reflex; RVLM; Diaphragm; Phrenic nerve; Sympathetic activity (Offner, B. (41) 103)

Spinal reflex
Spinal afferent; Spinal cord; Brainstem; Supraspinal reflex; Somato-sympathetic reflex; RVLM; Diaphragm; Phrenic nerve; Sympathetic activity (Offner, B. (41) 103)

Stomach
Enteric nervous system; Myenteric plexus; Noradrenaline; Synaptic transmission (Tack, J.F. (41) 67)

Substance P
Pupil; Pain; Trigeminal stimulation; Homatropine; Thymoxamine (Micieli, G. (41) 179)

Enteric nervous system; Nitric oxide; Electrophysiology; Junction potential; Apamin (Lyster, D.J.K. (41) 187)

Superior cervical ganglion
Dopamine receptor; Dopamine; Carotid body; Petrosal ganglion; mRNA (Czyzyk-Krzeska, M.F. (41) 31)

Supraspinal reflex
Spinal afferent; Spinal cord; Spinal reflex; Brainstem; Somato-sympathetic reflex; RVLM; Diaphragm; Phrenic nerve; Sympathetic activity (Offner, B. (41) 103)

Sympathetic
Dopaminergic nerve; Kidney; Coronary reflex; Autoregulation (Sunn, N. (41) 113)

Sympathetic activity
Carotid sinus nerve stimulation; Baroreceptor reflex; Renal nerve; α-Adrenoceptor (Ockert, D.M. (41) 93)

Spinal afferent; Spinal cord; Spinal reflex; Brainstem; Supraspinal reflex; Somato-sympathetic reflex; RVLM; Diaphragm; Phrenic nerve (Offner, B. (41) 103)

Sympathetic ganglion
Ongoing activity; Muscaranic receptors (Ivanov, A.Y. (41) 61)

Sympathetic nerve
Norepinephrine turnover; Liver regeneration; Rat (Iwai, M. (41) 209)

Sympathetic nerve activity
Neuropathic pain; Reflex sympathetic dystrophy; Skin temperature; Vasoconstriction; Microneurography (Casale, R. (41) 215)

Sympathetic oscillator
Rostral ventrolateral medulla; Power density spectral analysis; Synaptic block; Calcium antagonists (Trzebski, A. (41) 129)

Sympathetic preganglionic neuron
Synaptic inhibition; Glycine; GABA; Chloride conductance (Inokuchi, H. (41) 53)

Synaptic block
Rostral ventrolateral medulla; Sympathetic oscillator; Power density spectral analysis; Calcium antagonists (Trzebski, A. (41) 129)

Synaptic inhibition
Glycine; GABA; Chloride conductance; Sympathetic preganglionic neuron (Inokuchi, H. (41) 53)

Synaptic transmission
Enteric nervous system; Myenteric plexus; Stomach; Noradrenaline (Tack, J.F. (41) 67)

Target organs
Autonomic nervous system; Organization; Functional pathways (Jänig, W. (41) 3)

Thymoxamine
Pupil; Pain; Trigeminal stimulation; Substance P; Homatropine (Micieli, G. (41) 179)

Trigeminal stimulation
Pupil; Pain; Substance P; Homatropine; Thymoxamine (Micieli, G. (41) 179)

Vagal bradycardia
Nucleus ambiguus; Dopamine; 8-OH-DPAT; Microinjection (Chitravanshi, V.C. (41) 121)

Vagal nerve
Digestive sensitivity; Sensory transduction (Mei, N. (41) 15)

Vagal stimulation
Autonomic nervous system; Heart rate; Heart period (Berntson, G.G. (41) 221)

Vagus nerve
Celiac branch; Adrenal nerve (Niijima, A. (41) 87)

Vasoconstriction
Neuropathic pain; Reflex sympathetic dystrophy; Skin temperature; Sympathetic nerve activity; Microneurography (Casale, R. (41) 215)